

Alliance™ Service Manual



Patient Lifts
Service Guide

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INTRODUCTION

Chattanooga body patient lifters and transfer product reflect innovative state of the art design to increase user mobility. Chattanooga products allows a person to be lifted and transferred safely, with minimum physical effort provided by the caregiver. Our products will provide years of service if it is properly maintained as any electric and/or mechanical equipment requires. Please pay careful attention to the following important information regarding the care, maintenance, and operation of the patient lift. Carefully read these instructions before assembling the lifter, or attempting to lift a user with the device and practice using the lifter. Also prior to actual lifting or transferring, explain the procedure to the user/patient.

SYMBOLS



Warning! Failure to heed this warning may result in damage to the product or serious injury to the operator and/or user.



Important instructions follow. Read and understand the instructions in the manual before using the product.



Note! Important information concerning the product and/or its correct and proper usage follows.

SAFETY INSTRUCTIONS



- **FAILURE** to use this device according to instructions may cause serious injury.
- **NEVER** attempt to transfer a patient or resident whose weight exceeds the indicated maximum capacity for this device or any accessory.
- **NEVER** leave a patient unattended during transfer
- **DO NOT** use without complete understanding of safe and correct operation
- **DO NOT** use for the purpose of transportation over long distances.
- **DO NOT** use for the purpose of seating over long extended periods of time.

PLEASE NOTE THE FOLLOWING

- Special care must be taken with users/patients who cannot themselves provide assistance while being lifted. (i.e. patients who are comatose, spastic, agitated, or otherwise severely handicapped.)
- The patient lift should be used solely for transferring a user/patient from one utility (beds, chairs, toilets, etc.) to another. The patient lift should not be used for transporting or moving any patient from one location to another location.
- During lifting or lowering, whenever possible, always keep the base of the lift in the widest position.
- The base of the lift should be closed before moving the lift.
- Do not roll casters over any object while the user/patient is in the sling.
- Do not lock casters during lifting.
- While being lifted in a sling, always keep the user/patient centered over the base and facing the caregiver operating the lifter.
- Never leave the user/patient unattended during lifting.

PARTS LIST AND COMPONENTS

Control Box

Control box may vary depending on whether the lift has PERFORMANCE ELECTRONICS or LEGACY ELECTRONICS.

PERFORMANCE ELECTRONICS



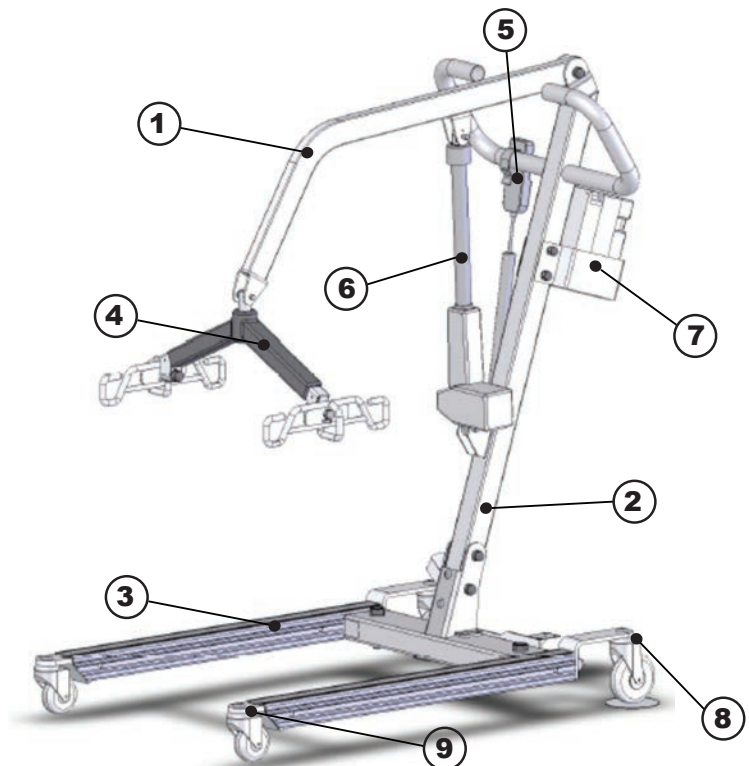
LEGACY ELECTRONICS



Parts List for 400Lb. Full Body Lifts

P/N 1925,1926,1902

1. Boom
2. Mast
3. Base
4. Spreader bar w/ Sling hooks
5. Pendant / Hand Control
6. Actuator
- *7 Control box and Battery Pack
- 8 Rear Caster w/ Brake
9. Front caster

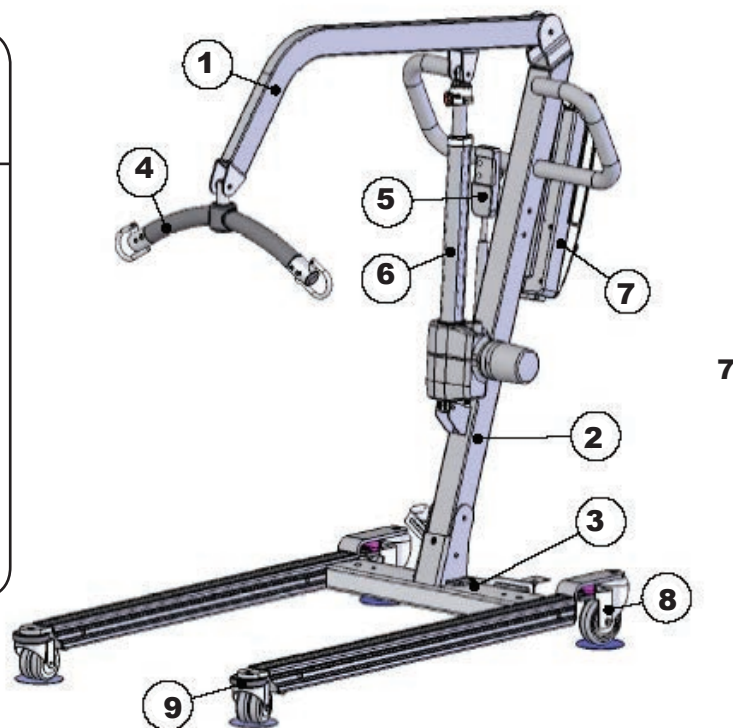


PARTS LIST AND COMPONENTS (CONT)

Parts List for 500Lb. Full Body Lifts

P/N 1922, 1923, 1924

1. Boom
2. Mast
3. Base
4. Spreader bar w/ Sling hooks
5. Pendant / Hand Control
6. Actuator w/ Emergency Release
- *7 Control box and Battery Pack
- 8 Rear Caster w/ Brake
9. Front dual caster



PL600 Series

Parts List for 600Lb. Full Body Lifts

P/N 1920, 1921, 1904

1. Boom
2. Mast
3. Base
4. Spreader bar w/ Sling hooks
5. Pendant / Hand Control
6. Actuator w/ Emergency Release
- *7 Control box and Battery Pack
- 8 Rear Caster w/ Brake
9. Front dual caster



MAINTENANCE AND INSPECTION

FULL BODY PATIENT LIFT

The operator of the lift shall inspect the Full Body Patient Lift before each use. Check all bolts for tightness. Make sure the base can be easily widened and that all lift parts are in place. Make sure that casters can be turned freely, and that caster brakes can be engaged. Make certain all necessary items (i.e. slings, wheelchairs, etc.) are ready for use.

At least once a month, the lift should be thoroughly inspected by a person qualified to recognize any signs of wear and tear and looseness of bolts or parts. Replace any worn parts immediately.

To lubricate, put a drop of oil on the following points when the Full Body Patient Lift is placed into service and every month thereafter: Top of Mast, Spreader Hinge, and Caster Axles.



400Lb.

1925 / 1926 / 1902



500Lb.

1922 / 1923 / 1924



600Lb.

1920 / 1921 / 1904

MAINTENANCE AND INSPECTION (CONT)

ITEM	FIRST RECEIVED	MONTHLY	EVERY 3 MONTHS
BOOM & SPREADER BAR			
Check connections between Boom and Mast for improper connection, looseness or wear.	X	X	
Check the Boom for bending and deflection.		X	
MAST			
Check the Mast for bending or deflection.	X	X	
BASE & FOOT PEDAL			
Check bolts and nuts for looseness.	X	X	
Check casters and axle bolts for tightness.	X	X	
Check rubber parts on the casters for deflection	X		X
Apply grease to caster ball bearings if needed.			X
Check welding joints for rust and crack.		X	X
CLEANING			
AS NEEDED			
ACTUATOR & CONTROL BOX			
Make sure the control box is firmly affixed to the mast.	X	X	
Make sure the actuator is secured to the boom and mast with pins and key rings	X	X	
Make sure actuator plug into control box is not loose.	X	X	
SLINGS & SLING HARDWARE			
Check sling for wear.	X	X	
Check sling hardware every time before use.	X	X	

PARTS LIST AND COMPONENTS

Control box may vary depending on whether the lift has **PERFORMANCE ELECTRONICS** or **LEGACY ELECTRONICS**.

PERFORMANCE ELECTRONICS



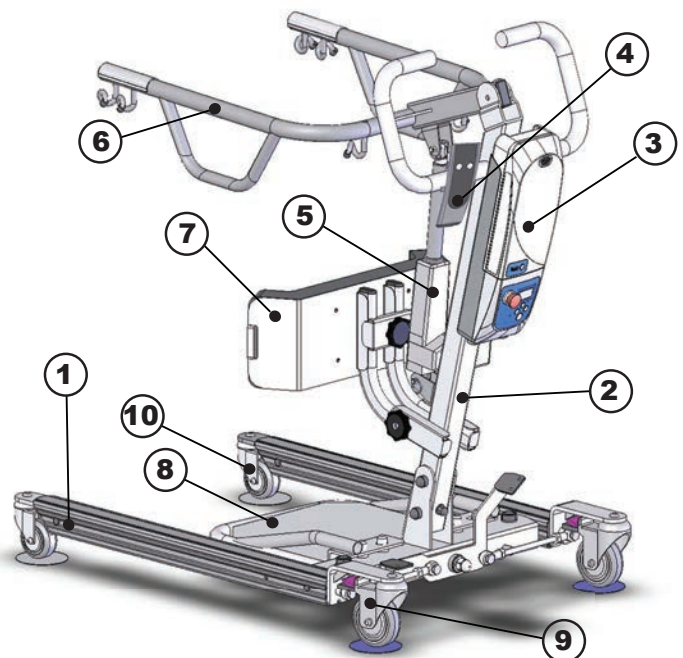
LEGACY ELECTRONICS



Parts List for Stand Assist 400Lb.

P/N 1932, 1933, 1906

1. Base
2. Mast
- *3. Control Box
4. Pendant
5. Actuator
6. Lifting Boom
7. Kneepad Assembly
8. Footrest
9. Castor with Brake
10. Front Castor



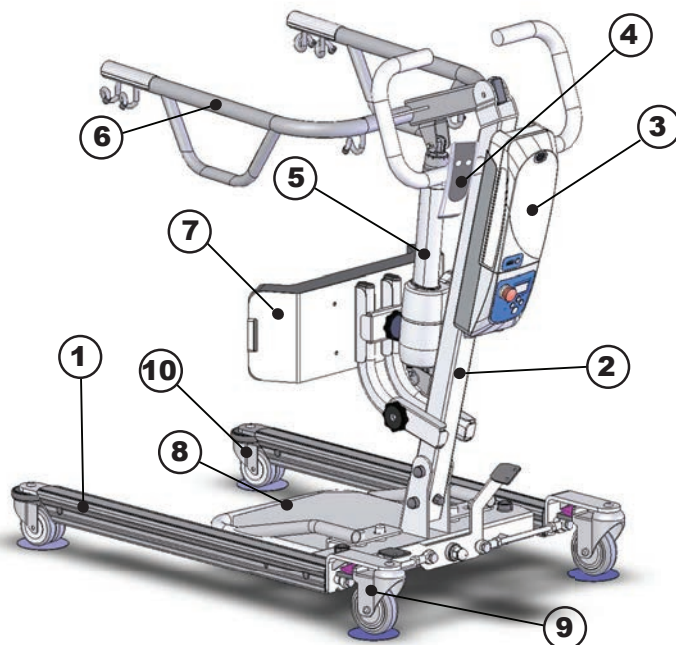
PARTS LIST AND COMPONENTS

PL400 Series

Parts List for 500Lb. Stand Assist

P/N 1929, 1930, 1931

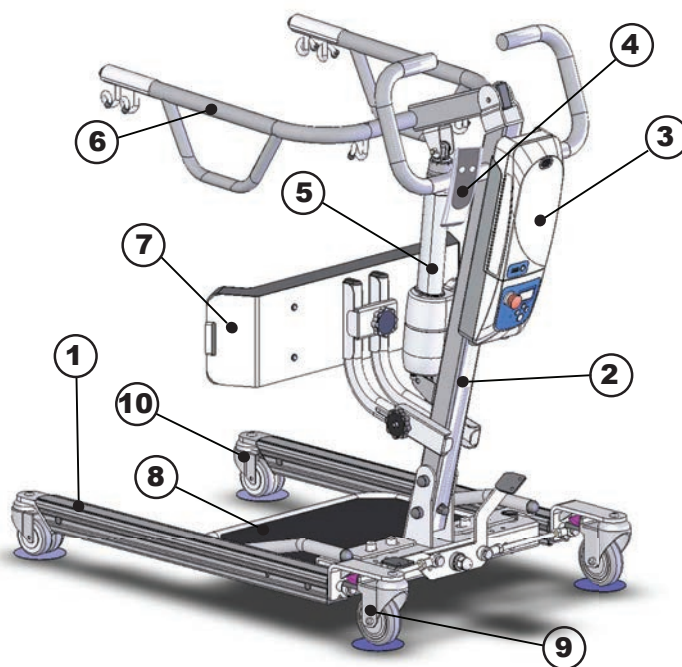
1. Base
2. Mast
- *3. Control Box
4. Pendant
5. Actuator w/ Emergency Release
6. Lifting Boom
7. Kneepad Assembly
8. Footrest
9. Castor with Brake
10. Dual Front Castor



Parts List for 600Lb. Stand Assist

P/N 1927, 1928, 1907

1. Base
2. Mast
- *3. Control Box
4. Pendant
5. Actuator w/ Emergency Release
6. Lifting Boom
7. Kneepad Assembly
8. Footrest
9. Castor with Brake
10. Front Castor



MAINTENANCE AND INSPECTION

STAND ASSIST LIFT

The operator of the lift shall inspect the Stand Assist Lift before each use. Check all bolts for tightness. Make sure the base can be easily widened and that all lift parts are in place. Make sure that casters can be turned freely, and that caster brakes can be engaged. Make certain all necessary items (i.e. slings, wheelchairs, etc.) are ready for use.

At least once a month, the lift should be thoroughly inspected by a person qualified to recognize any signs of wear and tear and looseness of bolts or parts. Replace any worn parts immediately.

To lubricate, put a drop of oil on the following points when the Stand Assist Lift is placed into service and every month thereafter: Top of Mast, Spreader Hinge, and Caster Axles.



400Lb.

1932 / 1933 / 1906



500Lb.

1929 / 1930 / 1931



600Lb.

1927 / 1928 / 1907

MAINTENANCE AND INSPECTION

ITEM	FIRST RECEIVED	MONTHLY	EVERY 3 MONTHS
BOOM & SPREADER BAR			
Check connections between Boom and Mast for improper connection, looseness or wear.	X	X	
Check the Boom for bending and deflection.		X	
MAST			
Check the Mast for bending or deflection.	X	X	
BASE & FOOT PEDAL			
Check bolts and nuts for looseness.	X	X	
Check casters and axle bolts for tightness.	X	X	
Check rubber parts on the casters for deflection	X		X
Apply grease to caster ball bearings if needed.			X
Check welding joints for rust and crack.		X	X
CLEANING			
AS NEEDED			
ACTUATOR & CONTROL BOX			
Make sure the control box is firmly affixed to the mast.	X	X	
Make sure the actuator is secured to the boom and mast with pins and key rings	X	X	
Make sure actuator plug into control box is not loose.	X	X	
SLINGS & SLING HARDWARE			
Check sling for wear.	X	X	
Check sling hardware every time before use.	X	X	

HEMOCARE HYDRAULIC FULL BODY PATIENT LIFT 1900 & 1908

The operator of the lift shall inspect the Hemocare Full Body Patient Lift before each use. Check all bolts for tightness. Make sure the base can be easily widened and that all lift parts are in place. Make sure that casters can be turned freely, and that caster brakes can be engaged. Make certain all necessary items (i.e. slings, wheelchairs, etc.) are ready for use.

At least once a month, the lift should be thoroughly inspected by a person qualified to recognize any signs of wear and tear and looseness of bolts or parts. Replace any worn parts immediately.

To lubricate, put a drop of oil on the following points when the Hemocare Full Body Patient Lift is placed into service and every month thereafter: Top of Mast, Spreader Hinge, and Caster Axles.



HYDRAULIC
1900



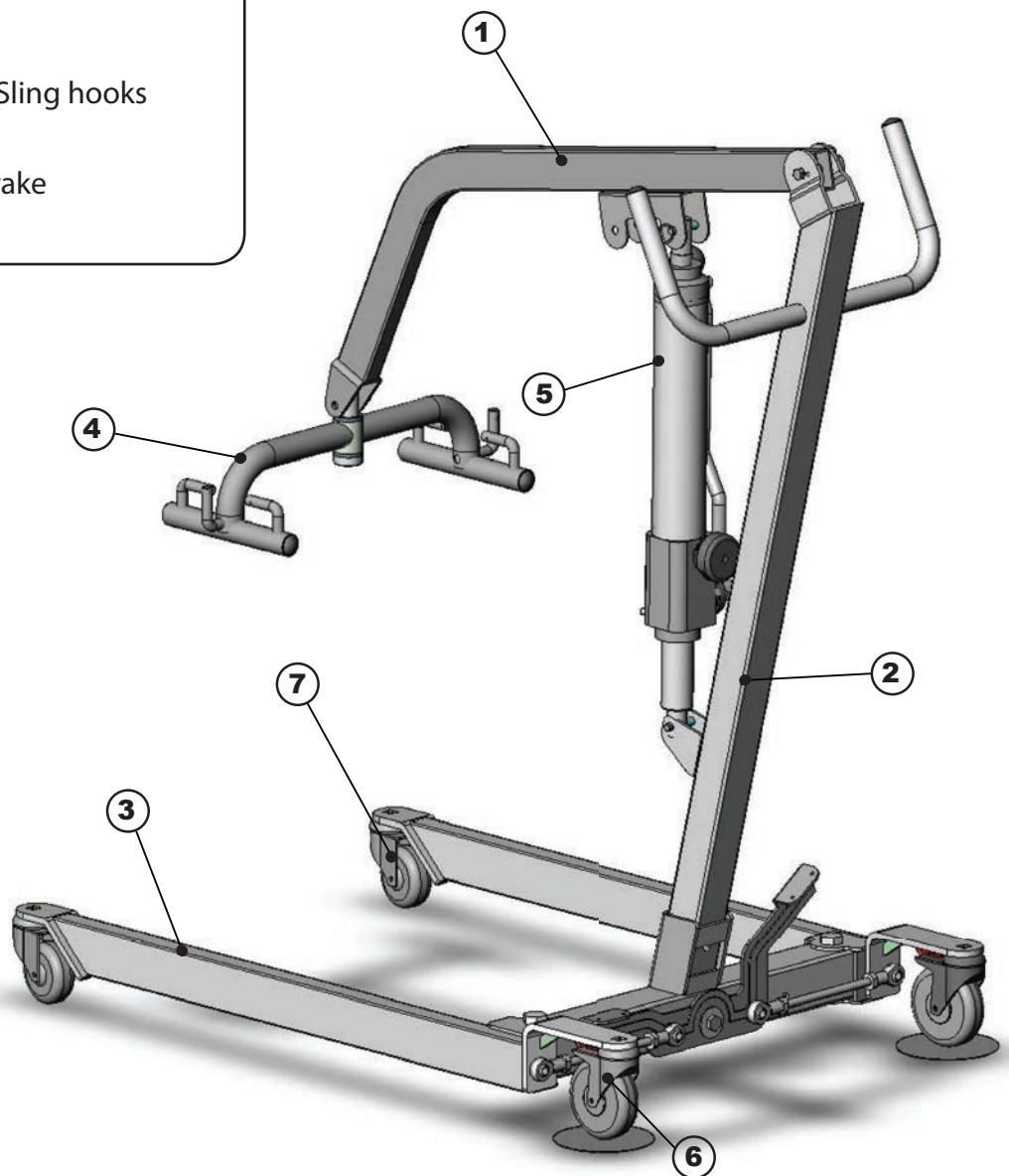
ELECTRIC
1908

PARTS LIST AND COMPONENTS

Parts List for 400Lb. Hydraulic Lift

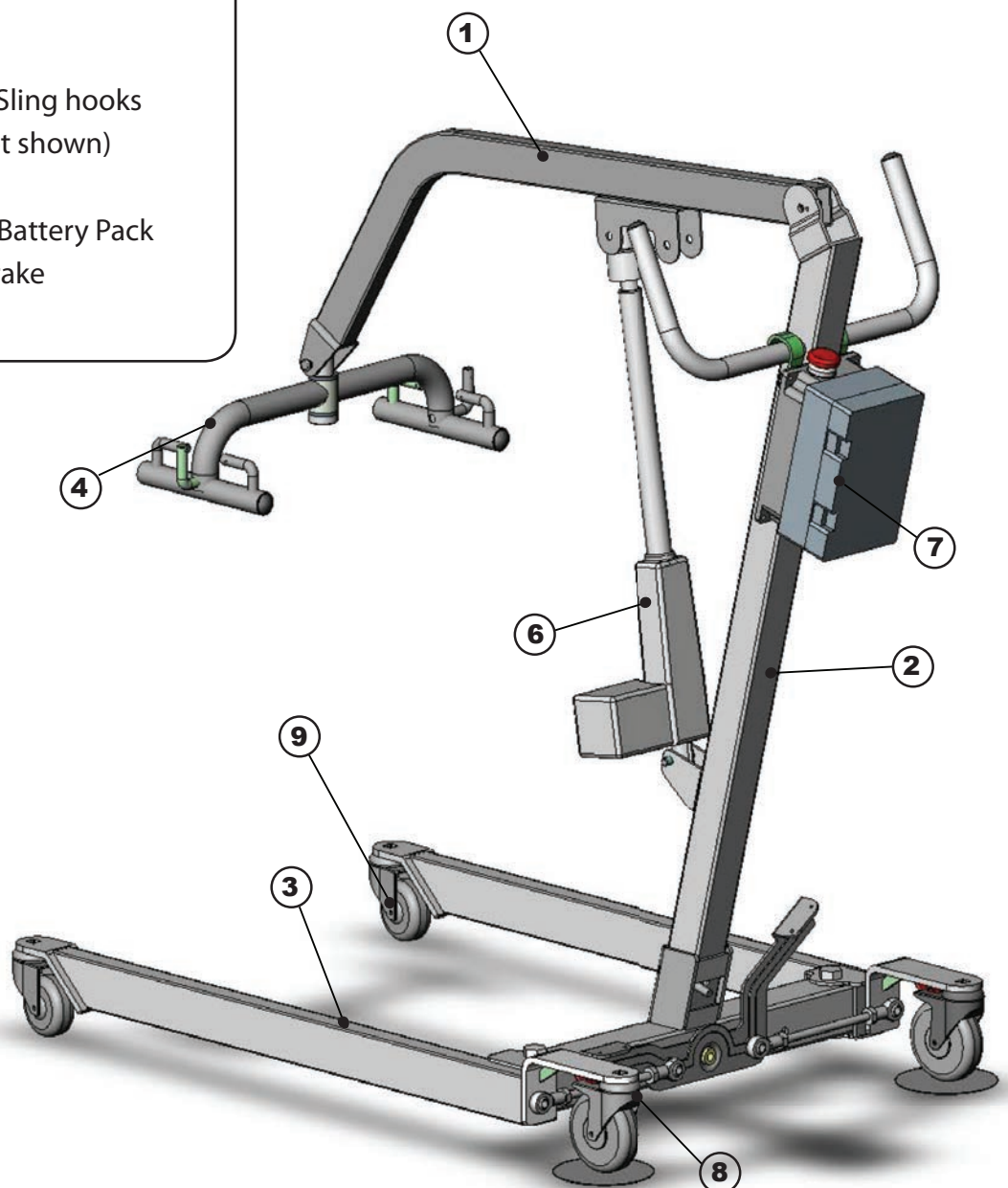
1900

1. Boom
2. Mast
3. Base
4. Spreader bar w/ Sling hooks
5. Hydraulic Pump
6. Rear Caster w/ Brake
7. Front caster



PARTS LIST AND COMPONENTS**Parts List for 1908 400Lb. with Battery****1908**

1. Boom
2. Mast
3. Base
4. Spreader bar w/ Sling hooks
5. Hand control (not shown)
6. Actuator
7. Control box and Battery Pack
8. Rear Caster w/ Brake
9. Front caster

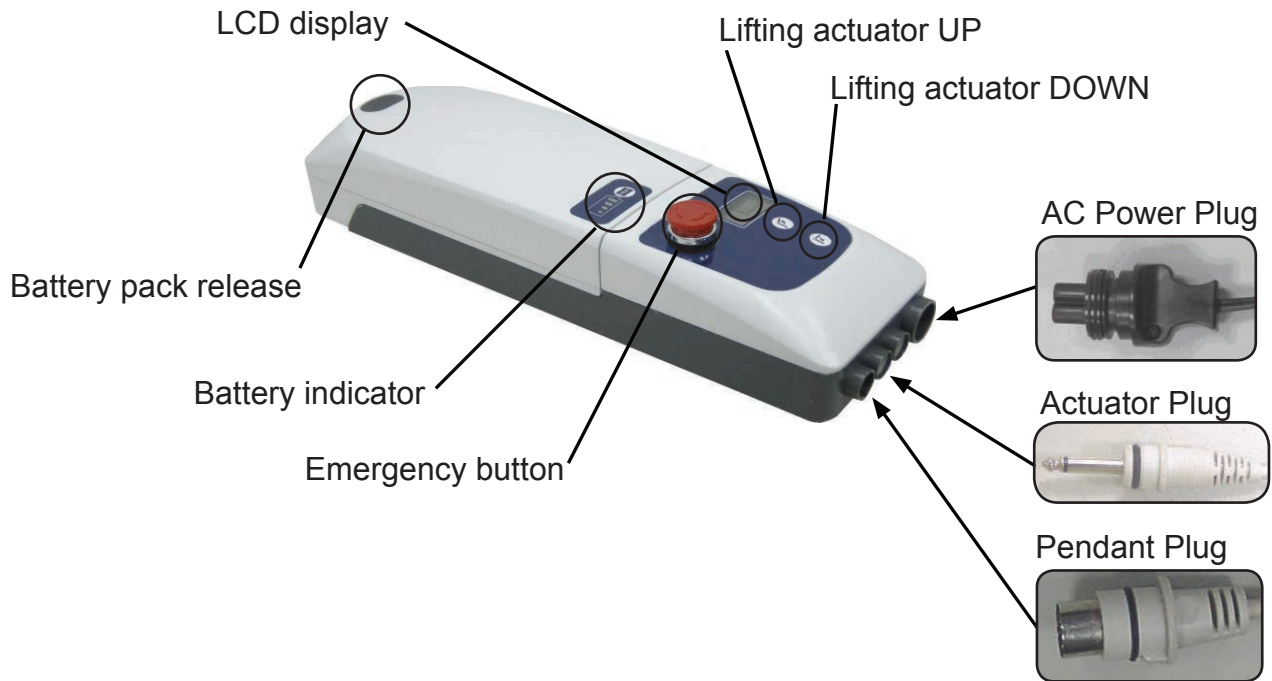


MAINTENANCE AND INSPECTION

	FIRST RECEIVED	MONTHLY	EVERY 3 MONTHS
BOOM & SPREADER BAR			
Check connections between Boom and Mast for improper connection, looseness or wear.	X	X	
Check the Boom for bending and deflection.		X	
MAST			
Check the Mast for bending or deflection.	X	X	
BASE & FOOT PEDAL			
Check bolts and nuts for looseness.	X	X	
Check casters and axle bolts for tightness.	X	X	
Check rubber parts on the casters for deflection	X		X
Apply grease to caster ball bearings if needed.			X
Check welding joints for rust and crack.		X	X
CLEANING			
AS NEEDED			
ACTUATOR & CONTROL BOX			
Make sure the control box is firmly affixed to the mast.	X	X	
Make sure the actuator is secured to the boom and mast with pins and key rings	X	X	
Make sure actuator plug into control box is not loose.	X	X	
SLINGS & SLING HARDWARE			
Check sling for wear.	X	X	
Check sling hardware every time before use.	X	X	

PERFORMANCE ELECTRONICS

COMPONENTS













FEATURES

- Smart charging function for longer battery life
- Battery capacity indicator on battery pack
- Soft start and stop for lifting actuator
- Soft and Hardware over-current protection
- Actuator's Over-duty protection with sign on LCD
- Emergency stop button interrupts the power supply to the actuator and makes the actuator stop immediately in case of sudden danger
- Internal charger
- LCD-display showing battery capacity and indication when the battery needs recharging.
- Audible alarm for low battery capacity
- Standard protection class: IP 66
- Pulling-proof design to lock the AC plug

PERFORMANCE ELECTRONICS

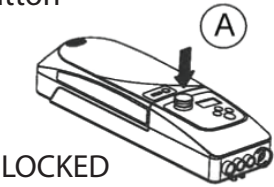
LCD INDICATORS

			
	Overload		90% Battery is charged to around 90%
	Battery Volume		70% Battery is charged to around 70
	Overused		50% 50% Battery Capacity Remaining Charge batteries immediately.
low battery	Battery Low (Blink)		25% 25% Battery Capacity Remaining Charge batteries immediately.
			10% Battery is charged to around 10% Buzzer beeps / Only lowering possible
			0% Power off

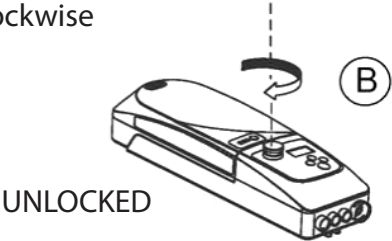
EMERGENCY STOP

Emergency stop button interrupts the power supply to the actuators and makes the actuators stop immediately in case of sudden danger.

press **RED** button



turn **RED** button clockwise



Patient lift will not operate while charging.

NOTE: It is strongly recommended that the button is pressed down when the lift will not be used for over 3 days to maintain optimal battery life and performance.

PERFORMANCE ELECTRONICS

FEATURES OF POWER PLUG

C-CLAMP :

- when the battery is being charged, insert this C-clamp to secure the power plug

WATERPROOF COVER:

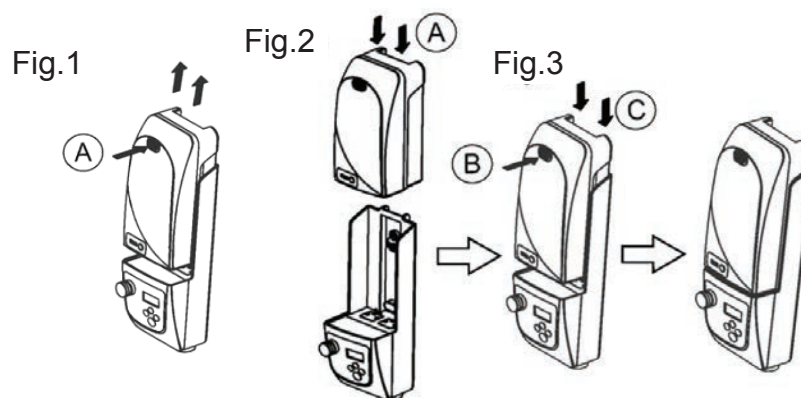
- when control is not being used, the cover should be closed to prevent water ingress.



REMOVE AND INSERT BATTERY PACK

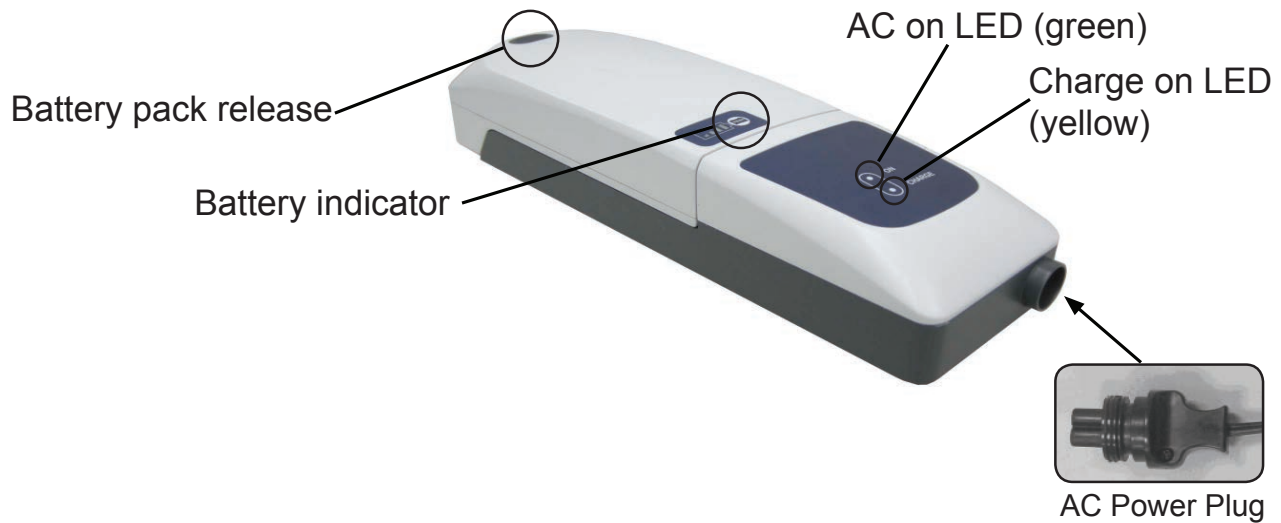
REMOVE : Press button A and pull out in the up direction (Fig.1)

- INSERT:
- Insert the battery pack into control box as show in Fig. 2 & 3.
 - While pressing the release/latch button A, slide the battery pack into control box in the downward direction and ensure battery pack latch hooks onto the top of the control box.
 - Once the battery pack is hooked onto the control box, release button A.



PERFORMANCE ELECTRONICS

CHARGER COMPONENTS



MOUNTING CHARGER

Step 1: Install two mounting bolts (M5 or gauge 10 having at least 8mm head) onto the mounting surface that are 12.4 in. / 31.6cm apart as shown in Fig. A.

Step 2: Turn the lock mechanism to the unlocked position Fig.B.

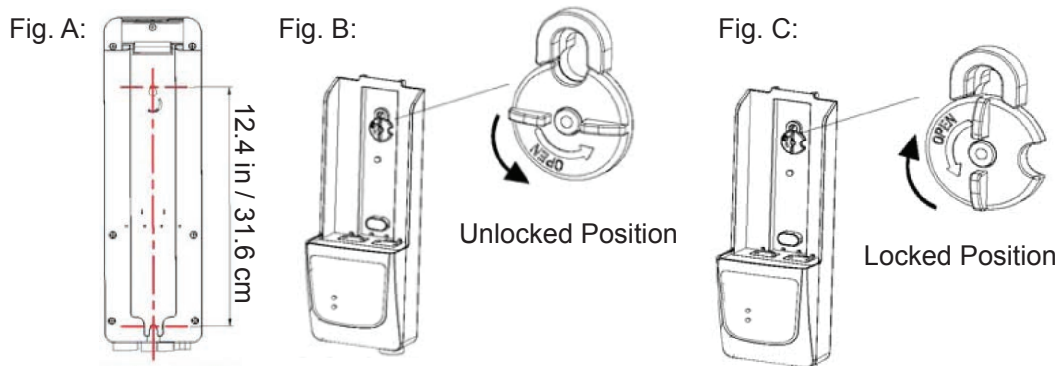
Step 3A: Hook the charging unit onto the mounting surface by first sliding the bottom slot over the bottom screw.

Step 3B: Align and fasten the top hole to the top screw.

*You may have to adjust the bolts for a tight and flush fit with the mounting surface.

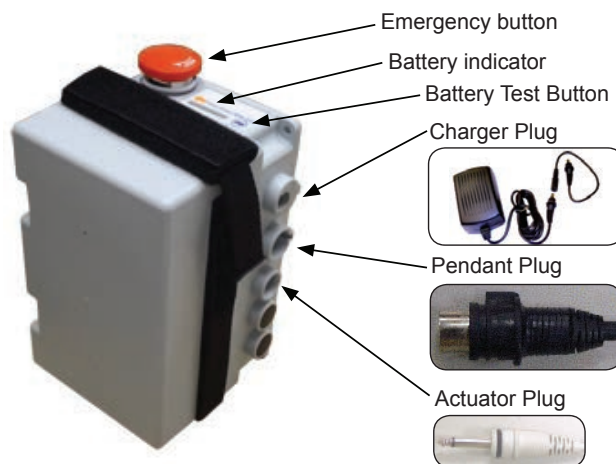
Step 4: Lock the charging unit securely in place as shown in Fig. C.

To remove and insert battery pack, please see Page 20. Follow instructions to remove and insert battery pack from Control Box.



LEGACY ELECTRONICS

COMPONENTS



TROUBLE SHOOTING

The lights on the control box are not lit and I can't charge?

- Make sure red re-set button is in up position
- Charger may be defective
- Batteries may be expired

The lights on the control box go to amber/red when I use the lift?

- The proper way to check battery levels is to not use the lift and depress the small blue plus/minus button to the right of the window with the lights. As long as you have two or more green lights you have a full charge.

CHECKING THE BATTERY

- Check batteries by pressing the Battery Testing Button (blue circle with a battery sign) on the control box.
- Batteries are fully charged when all lights on the Battery Indicator are "ON".
- Charge batteries when Indicator shown only one "GREEN" light.
- Do not use the lift when no "GREEN" light is shown. Charge the batteries immediately.
- Replace batteries when frequent charging is needed.

IMPORTANT NOTES ON CHARGING

- Push lift to charging location and charge the batteries with the charger provided. Frequent plug/unplug of the hand control and motor into/from the control box may damage the control box.
- Do not charge batteries over 12 hours.



Patient Lift will not operate while charging.

LEGACY ELECTRONICS

CHARGING THE BATTERY

- Ensure the power is switched "ON" (the red "RESET" button should be up).
- Insert charging plug into charging port on the control box.
- Plug charger to power supply.
- All lights of battery indicator should be "ON" while charging.
- It takes approximately 2-3 hours to fully charge the batteries from one **GREEN** light.
- It takes approximately 7-9 hours to fully charge the batteries from the **RED** light.
- Do not charge battery for an extensive period of time. This will shorten the life of the batteries.
- Do not let the batteries run down to the last **RED** light. This might shorten the life of the batteries or damage the batteries.
- Unplug the charger first before using the lift.

WHAT THE COLOR LIGHTS MEAN

RED	AMBER	GREEN	GREEN	GREEN	
ON	ON	ON	ON	ON	FULLY CHARGED
ON	ON	ON	OFF	OFF	NEED CHARGE
ON	ON/OFF	OFF	OFF	OFF	CHARGE IMMEDIATELY. DON'T USE THE LIFT
OFF	OFF	OFF	OFF	OFF	BAD BATTERIES OR BAD CONNECTION

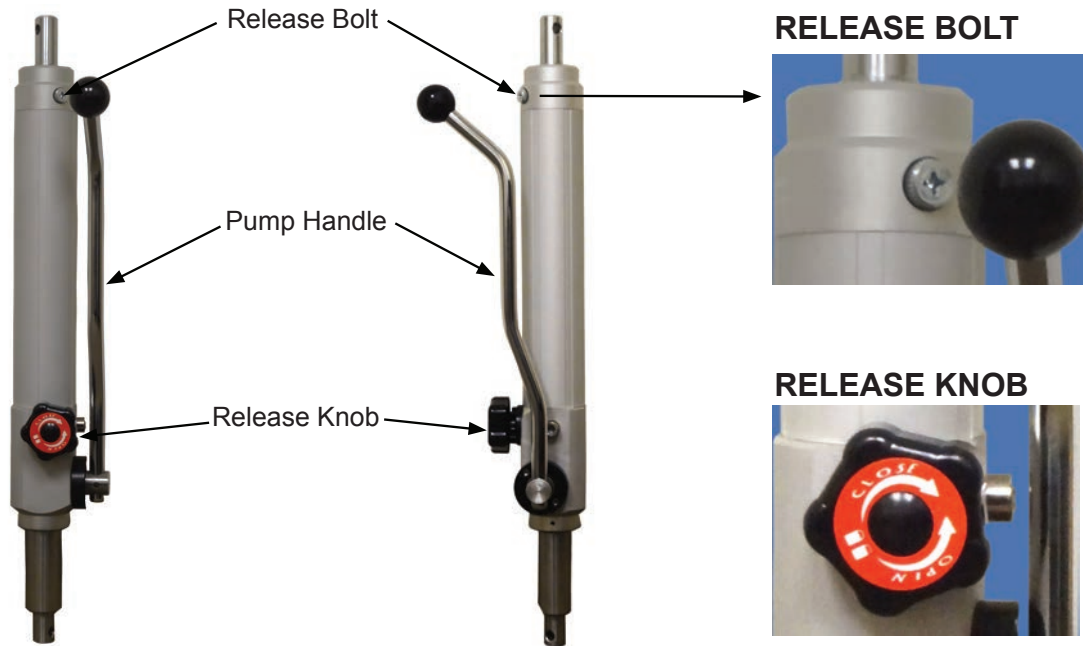
WARNING BUZZERS

The control box has a buzzer that provides you with information on the status of the batteries and the lift. To stop the buzzer, push down the RESET button or press the Battery Test button.

BUZZER TYPE	INDICATION	NOTE
2 beeps/sec	Low Battery (red/amber lights on)	Charge batteries immediately.
3 beeps/sec	Low Battery (red light on)	Charge batteries immediately.
6 beeps/sec	Very Low Battery (no light on)	Charge batteries immediately.
3 beeps every other second	Bad Battery (no light on)	Replace batteries.
3 long beeps	Overloaded. Batteries are charged but lift does not lift.	Exceeded maximum load capacity.

HYDRAULIC PUMP

COMPONENTS



TROUBLE SHOOTING

There is oil leaking from my pump?

- A slight amount of oil may be seen on the lifting shaft of the pump. This will not affect the performance of the lift and may be wiped clean if desired.
- Fluid oil leaking from the bottom portion of the pump indicates a broken seal and the pump should be replaced as soon as possible. Contact your dealer for assistance.

My pump will not lift the boom?

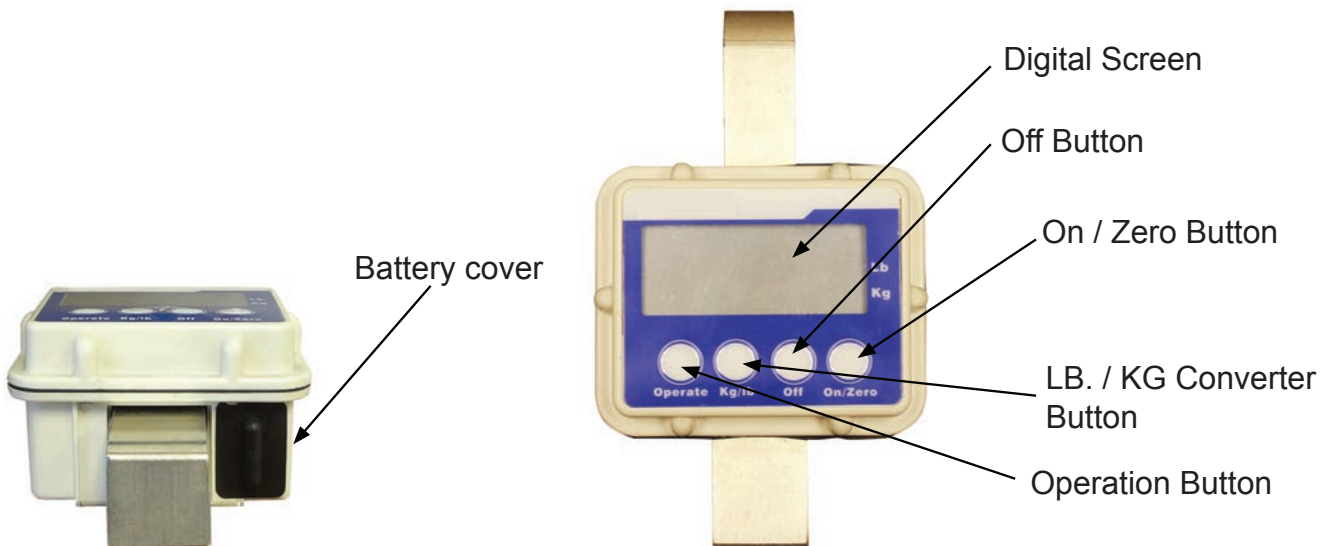
- Check to make sure the hydraulic pump is installed correctly with the red knob at the bottom. If a pump is installed upside down it will not allow any lifting.
- Turn the red release knob counter clock wise fully to the open position. Pump the handle 5 times and then reverse the red knob until it is fully closed. In most cases this will fix the problem and the pump will work again. If it still does not work contact your dealer for assistance.

My pump goes up and then drops down slightly?

- Air may be trapped inside the pump. Use a Phillips screwdriver to open the release bolt on the top side of the pump housing. Allow pump to lower all the way down. Tighten the release bolt with the screwdriver and the pump should resume normal operation. If the pump continues to malfunction it must be replaced and contact your dealer for assistance.

DIGITAL SCALE

COMPONENTS



BRACKET

19BRK

BRACKET FOR

400,500,600Lb. Full Body
Electronic Lifts

P/N 1920, 1921, 1904, 1922 ,
1923, 1924, 1925, 1926
and 1902



19BRKH

BRACKET FOR

P/N 1900, 1908



TROUBLE SHOOTING

The display is faded?

- Check to make sure the 9v battery is connected properly.
- Check the battery level located at the bottom left corner of the display window.

When I turn on the scale it does not start at zero?

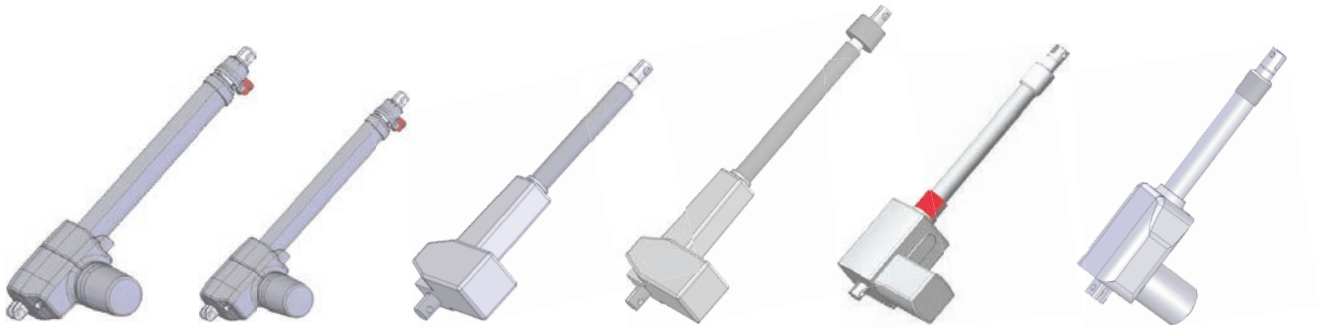
- Make sure there is no weight on the scale and press the "on/zero" button.
- There is also a "o" in the top left corner of the display window to indicate that the scale is set at zero

The scale is giving me the wrong weight?

- Make sure to set the Lb/Kg button to the unit desired by just pressing the "Lb/Kg" button.

ACTUATORS

TROUBLE SHOOTING



The actuator stops and starts during lifting or lowering?

- Check battery levels and replace if needed

The actuator is stalled and a clicking sound is audible?

- Check to make sure actuator plug is firmly pushed into the control box
- Actuator may be broken or at end of life cycle
- PCB inside control box may be defective (call tech service)

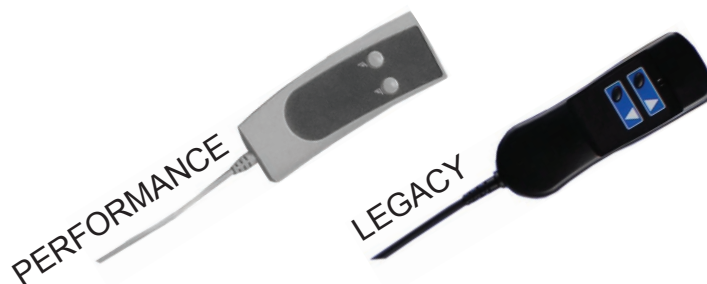
The actuator will go up and or down but not both?

- Hand control may be defective
- Control box may be defective

The actuator makes a grinding noise when lifting a person but no noise when no load?

- Internal gear on actuator stripped and actuator needs repair or replacing

PENDANT



TROUBLE SHOOTING

The lift does not go up or down?

- Make sure the pendant plug is securely attached to the control box.
- When using the Legacy pendant, there is a red light that comes on when buttons are pushed to indicate that the pendant is getting power.
- The pendant has reach its life cycle and the pendant needs to be replaced

ADAPTOR

TESTING PROCEDURE



- Step 1: Plug the charger to the AC power supply
- Step 2: Set the digital voltmeter to DCV
- Step 3: Connect digital voltmeter red and black cables as in Figure 1
- Step 4: A reading at or above 26.7 volts indicates the charger is working properly
- Step 5: A reading under 26.7 volts means you need to replace the charger

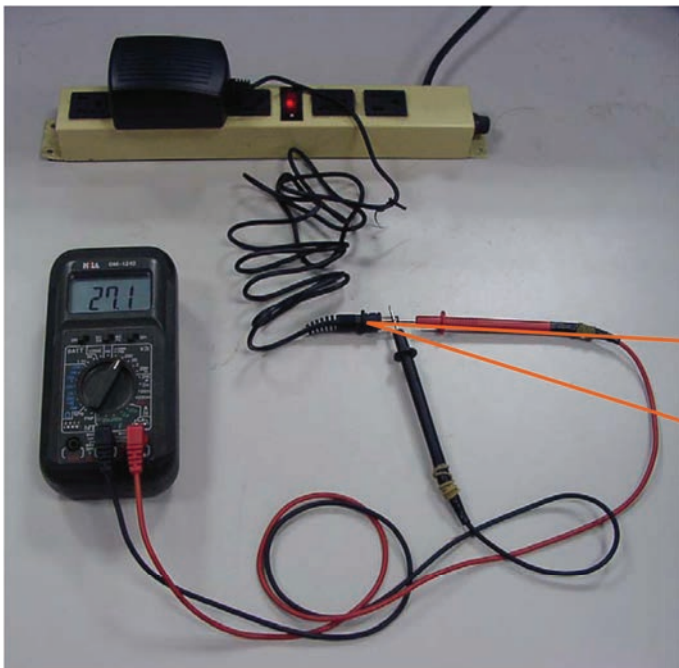


Figure 1



MAINTENANCE AND INSPECTION

Stand Aid TRANSFER AID

The operator of the transfer aid shall inspect the Standing Transfer Aid before each use. Check all bolts for tightness. Make sure the swivel seats can be easily turned and that all parts are in place. Make sure that casters can be turned freely, and that caster brakes can be engaged. Make certain all necessary items (i.e. slings, wheelchairs, etc.) are ready for use.

At least once a month, the transfer aid should be thoroughly inspected by a person qualified to recognize any signs of wear and tear and looseness of bolts or parts. Replace any worn parts immediately.

To lubricate, put a drop of oil on the following points when the Standing Transfer Aid is placed into service and every month thereafter: Seat hinges and Caster Axles.



P/N 1914



P/N 1913

MAINTENANCE AND INSPECTION**STANDING TRANSFER AID TABLE**

Item	FIRST RECEIVED	MONTHLY	EVERY 3 MONTHS
FRAME			
Check connections for improper connection, looseness or wear.	X	X	
Check the frame for bending and deflection.		X	
BASE & FOOT PEDAL			
Check bolts and nuts for looseness.	X	X	
Check casters and axle bolts for tightness.	X	X	
Check rubber parts on the casters for deflection	X		X
Apply grease to caster ball bearings if needed.			X
Check welding joints for rust and crack.		X	X
CLEANING			
AS NEEDED			
SLINGS & SLING HARDWARE			
Check sling for wear.	X	X	
Check sling hardware every time before use.	X	X	

PARTS LIST AND COMPONENTS

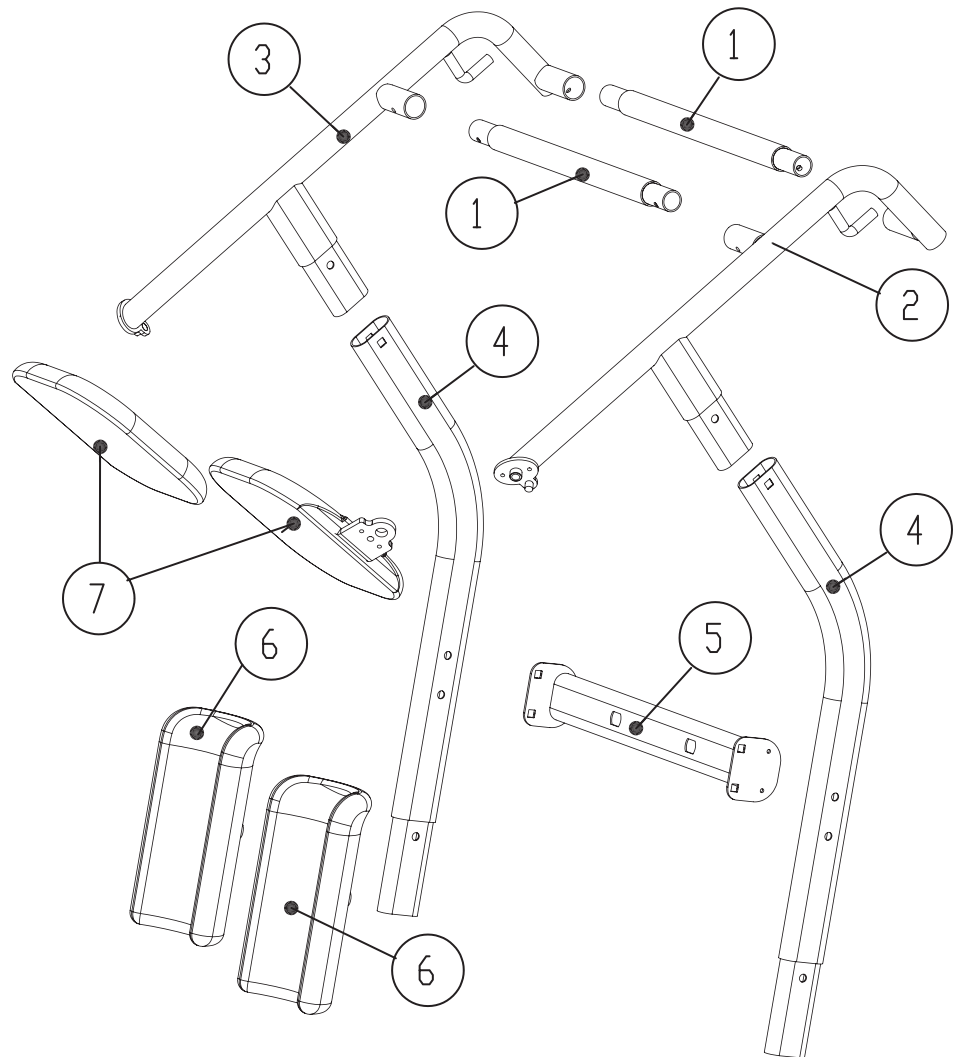
Stand Aid STANDING TRANSFER AID

Parts List

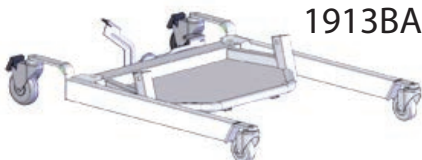
1. Cross Bar x 2
2. Right Side Arm
3. Left Side Arm
4. Side Support Arm x 2
5. Knee Pad Support Bar
6. Knee Pad x 2
7. Seat x 2

Tools & Fasteners

- | | | |
|----|-----|---------------|
| A1 | 8x | Carriage bolt |
| A2 | 2x | Hex bolt |
| A3 | 4x | Hex screw |
| A4 | 10x | Washer |
| A5 | 10x | Lock washer |
| A6 | 8x | Lock nut |
| A7 | 2x | Plastic cap |
| T1 | 1x | Wrench |
| T2 | 1x | Allen key |



STA450-BASE
1913BASE



STA400-BASE
1914BASE



Factory assembled base with foot plate and castors.

MAINTENANCE AND INSPECTION

STANDING TRANSFER AID

PATIENT LIFT MAINTENANCE RECORD			
LIFT MODEL:			
SERIAL NUMBER:			
DATE	SERVICE PERFORMED	PARTS APPLIED / REPLACED	MAINTENANCE PERFORMED BY

LIMITED PRODUCT WARRANTY. Subject to the terms below, DJO, LLC ("Company") provides the following limited product warranty relating to Chattanooga Alliance Patient Lifts ("Products").

- Lift frames and spreader bar: 3 years
- Actuator: 2 years
- Parts including casters, control box, PCB, pendant, charger: 2 years
- Batteries: 1 year
- Weigh Scale: 2 years
- Stand Aid all components: 2 years
- Hydraulic pumps: 1 year
- Reusable slings: 6 months

The above warranty periods commence on the date of the original customer purchase of the Product from Chattanooga or an authorized Chattanooga dealer. In the event of a defect in material or workmanship, Company will repair or replace the defective component or the Product, at Company's option, without charge to customer, and Company shall be responsible for shipping expenses for defective Products that are returned by the customer at Company's request and for shipping expenses for repaired or replaced Products that are shipped to the customer.

To make a warranty claim, Company's Customer Care Department or Company's authorized dealer which sold the Product must be notified of the defect during the applicable warranty period above. Products may not be returned by customer without a return authorization number. Products that are returned for a warranty repair are typically repaired within 30 days from the date the Product is received by Company, Company's dealer or Company's certified service center.

This warranty will be void if repairs or Product modifications are made by anyone other than Company, Company's dealer, or Company's certified service center.

This warranty does not cover: (1) replacement parts or labor furnished by anyone other than Company, Company's dealer, or Company's certified service center, (2) defects or damage caused by labor furnished by anyone other than Company, Company's dealer, or Company's certified service center, or (3) any malfunction or failure in a Product caused by abuse, accident or misuse, including but not limited to, the failure to provide required maintenance or any use that is inconsistent with the Product User Manual. Company is not responsible for injury, death or damage resulting from Product modifications or repairs performed by service personnel which have not been authorized by Company. This warranty extends to the original customer and is not transferable. This paragraph states the entire warranty relating to the Product, and Company does not authorize any person or representative to modify this warranty.

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